

Title (en)  
PORTABLE ELECTRIC BREAST PUMP

Publication  
**EP 0198469 B1 19920415 (EN)**

Application  
**EP 86105170 A 19860415**

Priority  
US 72385285 A 19850416

Abstract (en)  
[origin: EP0198469A2] A breast pump including a vacuum pump (12), vacuum hose (22), collection container (20), and a milk pumping flange (18) for application to a woman's breast for removing milk from the breast, all included within a small carrying case when not in use. The flange includes flexible mouth (32) and throat portions (46) and is generally conical with an elliptical cross section and an interior shape including raised portions simulating the tongue and jaw of a baby. The flange attaches sealingly to a collection container such as a nursing bottle, and vacuum created within the bottle by the pumpe and hose is applied through the flange to the woman's breast, while a vent opening (78) controls application and release of vacuum. During use the woman can massage her breast through the flexible flange and can control the rhythm with which suction is applied and relaxed, to pump milk more quickly.

IPC 1-7  
**A61M 1/06**

IPC 8 full level  
**A61M 1/06** (2006.01)

CPC (source: EP KR US)  
**A61M 1/06** (2013.01 - EP); **A61M 1/064** (2014.02 - EP KR US); **A61M 1/06935** (2021.05 - EP KR US); **A61M 1/0697** (2021.05 - EP KR US);  
**A61M 2210/1007** (2013.01 - KR)

Cited by  
WO2014045169A1; RU2651880C2; US5947923A; GB2391176B; US2020054805A1; US11806453B2; AT404555B; CN110251750A;  
US7413557B2; US6779638B2; WO2016033107A1; US9895474B2; DE102014103567A1; US9498565B2; WO2023105240A1; WO2014049068A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0198469 A2 19861022; EP 0198469 A3 19880622; EP 0198469 B1 19920415**; AT E74775 T1 19920515; AU 5611086 A 19861023;  
DE 3684806 D1 19920521; JP 2525832 Y2 19970212; JP H0744652 U 19951128; JP S61280867 A 19861211; KR 860007931 A 19861110;  
KR 940008744 B1 19940926

DOCDB simple family (application)  
**EP 86105170 A 19860415**; AT 86105170 T 19860415; AU 5611086 A 19860415; DE 3684806 T 19860415; JP 220195 U 19950322;  
JP 8622286 A 19860416; KR 860002921 A 19860416